



PTO/SB/08a/b (08-03)

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<b>Substitute for form 1449A/B/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)			<b>Complete if Known</b>		
			Application Number	10/657,516-Conf. #7793	
			Filing Date	September 8, 2003	
			First Named Inventor	Francois Binette	
			Art Unit	1623	
			Examiner Name	Not Yet Assigned	
Sheet	1	of	1	Attorney Docket Number	022956-0225

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
CQ		6,548,249	04/15/2003	Anderson et al.	
		6,472,181	10/29/2002	Mineau-Hanschke	
		6,455,304	09/24/2002	Weigel et al.	
		6,413,511	07/02/2002	Glorioso et al.	
		6,410,313	06/25/2002	Kasahara et al.	
		6,387,693	05/14/2002	Rieser et al.	
		6,365,149	04/02/2002	Vyakarnam et al.	
		6,361,771	03/26/2002	Tao et al.	
		6,306,169	10/23/2001	Lee et al.	
		6,303,379	10/16/2001	Selden et al.	
		6,224,893	05/01/2001	Langer et al.	
		6,149,902	11/21/2000	Artavanis-Tsakonas et al.	
		6,103,528	08/15/2000	An et al.	
		6,054,288	04/25/2000	Selden et al.	
		6,048,729	04/11/2000	Selden et al.	
		6,013,853	01/11/2000	Athanasίου et al.	
		6,008,013	12/28/1999	Reynolds	
		6,001,352	12/14/1999	Boyan et al.	
		5,968,502	10/19/1999	Treco et al.	
		5,939,323	08/17/1999	Valentini et al.	
		5,872,094	02/16/1999	Goetinck et al.	
		5,869,041	02/09/1999	Vandenburgh	
		5,842,477	12/01/1998	Naughton et al.	
		5,108,753	04/28/1992	Kuberasampath et al.	
		5,053,050	10/01/1991	Itay	
		5,041,138	08/20/1991	Vacanti et al.	
		4,904,259	02/27/1990	Itay	
		4,642,120	02/10/1987	Nevo et al.	
		2003/0077260	04/24/2003	Mineau-Hanschke	
		2003/0036523	02/20/2003	Czichos et al.	
		2003/0012805	01/16/2003	Chen et al.	
		2002/0177224	11/28/2002	Madry et al.	
		2002/0160471	10/31/2002	Kisiday et al.	
		2002/0142984	10/03/2002	Brigham et al.	
		2002/0115218	08/22/2002	Havenga et al.	
		2002/0110544	08/15/2002	Goldberg et al.	
		2002/0076810	06/20/2002	Radice et al.	
		2002/0037279	03/28/2002	Vandenburgh	
		2002/0009477	01/24/2002	Mahmood et al.	
		2002/0006428	01/17/2002	Mahmood et al.	
	2002/0003727	01/10/2002	Hartmann		
	2001/0051834	12/13/2001	Fronzoza et al.		
	2001/0037017	11/01/2001	Luyten et al.		
	2001/0033857	10/25/2001	Vyakarnam et al.		
	2001/0014475	08/16/2001	Fronzoza et al.		
	2001/0002392	05/31/2001	Heinegard et al.		
Examiner Signature	Celine Qian <small>Digitally signed by Celine Qian DN: cn=Celine Qian, o=US pt=USPTO, ou=1636, email=celina. qian@uspto.gov Date: 2003.10.16 15:53:24-07</small>			Date Considered	



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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
CQ	CA	GROGAN, et al., "Engineering Cartilage for Drug Delivery," Institute of Pathology, University of Bern, Murtenstrasse 31, 3010, Bern Switzerland	

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
CQ	BA	-WO 02/074912	09-26-2002	Madry, et al.		
	BB	-WO 99/11789	03-11-1999	Breitbard, et al.		
	BC	-WO 96/34955	11-07-1996	Baragi, et al.		
	BD	-WO 96/39196	12-12-1996	Glorioso, et al.		
	BE	-WO 03/082302	10-09-2003	Song, et al.		

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	CA	MANRY, ET AL., "Efficient lipid-mediated gene transfer to articular chondrocytes," GENE THERAPY, Vol. 7, no. 4, pages 286-291, Feb. 2002	
	CB	HIMENO, ET AL., "IMPAIRED VASCULAR INVASION OF CBFA1-DEFICIENT CARTILAGE ENGRAFTED IN THE SPLEEN," Journal of Bone and Mineral Research, Vol. 17, NO. 7, PAGES 1297-1305, Jul 2002	
	CC	ARAI, ET AL. "Adenovirus Vector-Mediated Gene Transduction to Chondrocytes: In Vitro Evaluation of Therapeutic Efficacy of Transforming Growth Factor-Beta1 and Heat Shock Protein 70 Gene Transduction," Journal of Rheumatology, Vol. 24, pages 1787-1795, 1997	
	CD	BARTHOLOMEW, ET AL., "Baboon mesencymal stem cells can be genetically modified to secrete hum erythropoietin in vovi," Human Gene Therapy, vol. 12, no. 12, pages 1527-1541, Aug 2001	

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